PATENT COOPERATION TREA





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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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and internat	IONAL PRELIMINARY		ATION REPORT
	(PCT Article 36 ar	d Rule 70)	
Applicant's or agent's file reference PCT 46/003 Bo	FOR FURTHER ACTION		cation of Transmittal of Internation Examination Report (Form PCT/IPEA/4)
International application No.	International filing date (day/month/year) Priority date (day/month/year)		
PCT/EP2003/009794 International Patent Classification (IPC) or B01J 23/92, 38/60	04 September 2003 (0 national classification and IPC	+.09.2003)	05 September 2002 (05.09.200
Applicant .	ENVICA GM	 3H	
This international preliminary examinated and is transmitted to the applicant		ed by this Interr	national Preliminary Examining Authority
2. This REPORT consists of a total of	of 5 sheets, include	ling this cover s	sheet.
amended and are the basis t	nied by ANNEXES, i.e., sheets for this report and/or sheets conf ae Administrative Instructions un	aining rectification	on, claims and/or drawings which have b ations made before this Authority (see R
These annexes consist of a	total of sheets.		
3. This report contains indications re	lating to the following items:		
I Basis of the report	t		
II Priority			
III Non-establishmen	at of opinion with regard to nove	lty, inventive s	tep and industrial applicability
IV Lack of unity of in	nvention		
V Reasoned stateme citations and expl	nt under Article 35(2) with rega anations supporting such statem	rd to novelty, in ent	nventive step or industrial applicability;
VI Certain document	s cited		
VII Certain defects in	the international application		
	ons on the international applicat	ion	
Date of submission of the demand	Date	of completion	of this report
07 February 2004 (07.	.02.2004)	04 N	ovember 2004 (04.11.2004)
Name and mailing address of the IPEA/E	P Aut	horized officer	•

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ational application No.
PCT/EP2003/009794

I. I	Basis (of the re	port	
1.	With	regard to	the elements of the international application:*	
		the inte	mational application as originally filed	
	\boxtimes	the desc	cription:	
		pages	1-10	, as originally filed
		pages		, filed with the demand
		pages	, filed with the letter of	
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		pages		, as originally filed
		pages	, as amended (together	
		pages		, filed with the demand
		pages	1-14 , filed with the letter of	17 June 2004 (17.06.2004)
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	Replin thand	This rebeyond	the description, pages the claims, Nos the drawings, sheets/fig port has been established as if (some of) the amendments had not been made, sin the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** sheets which have been furnished to the receiving Office in response to an invitate as "originally filed" and are not annexed to this report since they do not ment sheet containing such amendments must be referred to under item 1 and annexed.	ntion under Article 14 are referred to ot contain amendments (Rule 70.16
"	Any	геріасеп	nem sneet containing such amenuments must be referrea to under item I and anne	xeu w ms report.

Internal application No. PCT/LP 03/09794

I. Basis of the report

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

1. The amendments submitted with the letter of 17 June 2004 introduce substantive matter which, contrary to PCT Article 34(2)(b), goes beyond the disclosure in the international application as filed. The amendments are as follows: use of isoascorbic acid as per claim 3.

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	3-5, 9-11	YES
	Claims	1, 2, 6-8, 12-14	NO
Inventive step (IS)	Claims		YES
	Claims	3-5, 9-11	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO
	Novelty (N) Inventive step (IS)	Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims	Novelty (N) Claims 3-5, 9-11 1, 2, 6-8, 12-14 Inventive step (IS) Claims Claims 3-5, 9-11 Industrial applicability (IA) Claims 1-14

- 2. Citations and explanations
 - 1. Reference is made to the following documents:

D1: JP-A-10156192 & Derwent WPI abstract (AN: 1998-391666)

D2: US-A1-2001006929

D3: US-A-4615991

The details of D1 are based on a computerized translation.

- 2. Novelty (PCT Article 33(2))
- 2.1 D1 describes a process for regenerating deNOx catalytic converters in which the catalytic converter is treated with a citric acid- and sulphuric acid-containing solution (paragraph [0022]). Citric acid is a hydroxycarboxylic acid.

The process according to claim 1 is therefore not novel over D1.

3. Dependent claims 2-14 do not appear to contain any additional features which could substantiate novelty and/or inventive step.

In particular, the additional features of dependent claims 6 (paragraph [0024]), 7-8 (paragraph [0030]), 12 (paragraph [0020]) and 13 (paragraph [0031]) are likewise known from D1. Further, a person skilled in the art knows other reducing agents and would therefore substitute other substances for citric acid without being inventive. Note that it does not follow from the application that the selection of, for example, ascorbic acid as a reducing agent yields a special technical effect.

Further, D2 describes the use of surfactants (paragraphs [0014] and [0015]) and treatment with ultrasound (paragraph [0019]). D2 relates to a regenerating process comprising washing with acids, wherein the washing solution may contain oxidizing or reducing additives (paragraph [0018]). The washing solution also contains catalytically active metal compounds. D1 also refers to the postimpregnation required as per the prior art (paragraph [0038]).

4. D3 (claims 1 and 2) describes the regeneration of deNOx catalytic converters by treating them with an oxalic acid solution. Oxalic acid likewise represents a reducing agent. Since it is not apparent that a special effect is achieved by selecting any hydroxycarboxylic acid as a reducing agent instead of oxalic acid, the subject matter of at least independent claim 1 does not involve an inventive step over D3 (PCT Article 33(3)).